



KENCRO

CHEMICALS

PRODUCT: SODIUM BICARBONATE

SECTION 1: PRODUCT INFORMATION

T.D.G. CLASSIFICATION	NOT REGULATED
UN NUMBER	N.AP.
PACKING GROUP	N.AP.
PRODUCT NAME	SODIUM BICARBONATE #2, SODIUM BICARB, SOD. BICARB. USP#3 (FMC); SOD. BICARB. USP #5 (FMC); SOD. BICARB. USP #5 DIALYSIS; SODIUM BICARB. IND. (FMC)
WHMIS CLASSIFICATION	THIS IS NOT A CONTROLLED PRODUCT
CHEMICAL FORMULA	NAHCO ₃
MOLECULAR WEIGHT	84.01 G/MOLE
CHEMICAL FAMILY	ALKALI
MATERIAL USE	REFER TO TECHNICAL LITERATURE

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V.	C.A.S. #	LD/50,ROUTE,SPECIE	LC/50,ROUTE,SPECIE
SODIUM BICARBONATE	100	-----	144-55-8	4220 MG/KG (ORAL,RAT)	N.AV.

SECTION 3: PHYSICAL DATA

PHYSICAL STATE	WHITE GRANULES OR POWDER
ODOUR	ODOURLESS
ODOUR THRESHOLD	N.AV.
VAPOUR PRESSURE (MMHG)	NIL
VAPOUR DENSITY (AIR=1)	N.AP.
EVAPORATION RATE	N.AP.
BOILING POINT	N.AP.
FREEZING POINT	DECOMPOSES
PH (1% SOLN/WATER)	8.3
SPECIFIC GRAVITY (WATER=1)	2.16 @ 20°C
SOLUBILITY IN WATER (% W/W)	8.8% @ 20°C
COEFFICIENT OF WATER/OIL DIST.	N.AP.

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY	NOT FLAMMABLE
IF YES, UNDER WHICH CONDITIONS?	
EXTINGUISHING MEDIA	USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS (SCBA) WHEN EITHER IN CONFINED AREAS OR EXPOSED TO COMBUSTION PRODUCTS.
SPECIAL PROCEDURES	N.AP.
FLASH POINT(C), METHOD	N.AP.
AUTO IGNITION TEMPERATURE	N.AP.
T.D.G. FLAM. CLASS	NOT REGULATED
UPPER FLAMMABLE LIMIT(UFL) (% BY VOL)	N.AP.
LOWER FLAMMABLE LIMIT(LFL) (% BY VOL)	N.AP.

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HAZARDOUS COMBUSTION PRODUCTS	NONE
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE	N.AV.
SENSITIVITY TO IMPACT	N.AV.
RATE OF BURNING	N.AV.
EXPLOSIVE POWER	NONE

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY	
YES	STABLE
NO, WHICH CONDITIONS?	IN MOST AIR, FORMS SODIUM CARBONATE.
COMPATIBILITY WITH OTHER SUBSTANCES:	
YES	
NO, WHICH ONES?	ACIDS
REACTIVITY CONDITIONS	INCOMPATIBLE WITH ACIDS, ALUMINUM ABD PHOSPHOROUS PENTOXIDE.
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR
CONDITIONS TO AVOID	CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED CONDITIONS
HAZARDOUS PRODUCTS OF DECOMPOSITION	CARBON DIOXIDE, HEAT

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	
SKIN CONTACT	MILD IRRITANT
SKIN ABSORPTION	NO PUBLISHED DATA
EYE CONTACT	MILD IRRITANT
INHALATION	NO PUBLISHED DATA
INHALATION, CHRONIC	N.AV.
INGESTION	PRACTICALLY NON-TOXIC
EFFECTS OF ACUTE EXPOSURE	SODIUM BICARBONATE IS A GAS (GENERALLY RECOGNIZED AS SAFE) FOOD INGREDIENT. NO SIGNIFICANT TOXICITY IS EXPECTED. MAY BE IRRITATING TO SKIN AND EYES.
EFFECTS OF CHRONIC EXPOSURE	ADMINISTRATION OF LARGE DOSES OF SODIUM BICARBONATE TO PATIENTS WITH RENAL INSUFFICIENCY CAN PRODUCE SYSTEMATIC ALKALOSIS.
LD 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
LC 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
EXPOSURE LIMIT OF	SEE SECTION II
IRRITANCY OF MATERIAL	SEE ABOVE
SENSITIZING CAPABILITY OF	
CARCINOGENICITY OF MATERIAL	NONE
REPRODUCTIVE EFFECTS	NONE
SYNERGISTIC MATERIALS	NONE
ADDITIONAL INFORMATION	CALIFORNIA "PROPOSITION 65": NO CHEMICALS LISTED BY CALIFORNIA ARE PRESENT AT A LEVEL THAT POSES A SIGNIFICANT RISK OF CAUSING CANCER OR REPRODUCTIVE TOXICITY. CONCENTRATION OF LISTED CHEMICALS ARE: ARSENIC, PPM AS AS203=0.01. TOTAL CHROMIUM, PPM CR = 0.03. LEAD, PPM PB = <1. ALL OTHER LISTED CHEMICALS ARE NOT DETECTED OR NOT SUSPECTED TO BE PRESENT.

SECTION 7: PREVENTATIVE MEASURES

GLOVES/TYPE	GENERAL PURPOSE
RESPIRATORY/TYPE	USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION WHEN AIRBORNE DUST IS EXPECTED.
EYE/TYPE	CHEMICAL SAFETY GOGGLES
FOOTWEAR/TYPE	NO SPECIAL REQUIREMENTS
CLOTHING /TYPE	FULL COVER CLOTHING, LAB COAT
OTHER/TYPE	EYE BATH AND SAFETY SHOWER

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ENGINEERING CONTROLS	LOCAL EXHAUST AND GENERAL ROOM VENTILATION ARE REQUIRED TO MEET EXPOSURE STANDARDS
LEAK/SPILL	AVOID DUST ACCUMULATION. SWEEP OR SHOVEL MATERIAL INTO WASTE CONTAINER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE.
WASTE DISPOSAL	IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS
HANDLING PROCEDURES AND EQUIPMENT	MINIMIZE DUST GENERATION AND EXPOSURE. USE DUST MASK. MAINTAIN GOOD PERSONAL HYGIENE.
STORAGE NEEDS	STORE IN A COOL, DRY AND WELL-VENTILATED PLACE FOR PRODUCT INTEGRITY. KEEP CONTAINER TIGHTLY CLOSED. DO <u>NOT</u> STORE NEAR ACIDS.
SPECIAL SHIPPING INSTRUCTIONS	SEE SECTION 1 TDG CLASSIFICATION

SECTION 8: FIRST AID MEASURES

INSTRUCTIONS:

SKIN: FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. SEEK MEDICAL ATTENTION IF THE IRRITATION PERSISTS.

EYES: CHECK FOR AND REMOVE ANY CONTACT LENSES. FLUSH WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF ENTIRE SURFACE OF EYE AND LIDS WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF DISCOMFORT OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. GET MEDICAL ATTENTION IF SYMPTOMS APPEARS.

NOTES TO PHYSICIAN: INTERNAL TOXICITY IS LOW. TREATMENT FOLLOWS STANDARD PROTOCOLS AND IS OTHERWISE SYMPTOMATIC AND SUPPORTIVE.

SECTION 9: PREPARATION INFORMATION

EMERGENCY PHONE NO	(613) 996 6666 (CANUTEC)
PREPARED BY	KENCRO CHEMICALS LIMITED
	(905) 827 4133
DATE	JUNE 2008

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LEGEND:

CAS #	CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
LFL	LOWER FLAMMABLE LIMIT
MSHA	MINE SAFETY AND HEALTH ADMINISTRATION
N.AP.	NOT APPLICABLE
N. AV.	NOT AVAILABLE
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
PPM	PARTS PER MILLION
SCBA	SELF-CONTAINED BREATHING APPARATUS
TDG	TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS
TLV	THRESHOLD LIMIT VALUE
UFL	UPPER FLAMMABLE LIMIT
WHMIS	WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM